

## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of  
Invention

Elimination of Peak Clipping and Improved Efficiency for RF  
Power Amplifiers With a Predistorter

Application Number: 10/625761



Confirmation Number: 7840

First Named Applicant: Thomas Bachman

Attorney Docket Number: ANCO67USB

Search string: ( 6211733 or 6236267 or 6236837 or 6275685  
or 6285251 or 6285255 or 6304140 or 6337599  
or 6342810 or 6353360 or 6356146 or 6359508  
or 6377785 or 6414545 or 6512417 or 5116040  
or 5594385 or 5610554 ).pn.

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
my	1	6211733	2001-04-03	Gentzler		330	149
	2	6236267	2001-05-22	Anzil		330	149
	3	6236837	2001-05-22	Midya		455	63
	4	6275685	2001-08-14	Wessel et al.		455	126
	5	6285251	2001-09-04	Dent et al.		330	127
	6	6285255	2001-09-04	Luu et al.		330	149
	7	6304140	2001-10-16	Thron et al.		330	149
	8	6337599	2002-01-08	Lee		330	149
	9	6342810	2002-01-29	Wright et al.		330	51
	10	6353360	2002-03-05	Hau et al.		330	149
	11	6356146	2002-03-12	Wright et al.		330	2
	12	6359508	2002-03-19	Mucenieks		330	149
	13	6377785	2002-04-23	Ogino		455	127
	14	6414545	2002-07-02	Zhang		330	149
	15	6512417	2003-01-28	Booth et al.		330	149
	16	5116040	1992-06-02	Long et al.		330	149
my							

17	17	5594385	1997-01-14	Anvari	330	149
18	18	5610554	1997-03-11	Anvari	330	52

Signature








Examiner Name	Date
SHINGLETON	3/1/05



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Title of Invention	Elimination of Peak Clipping and Improved Efficiency for RF Power Amplifiers With a Predistorter																																																																																																						
<p>Application Number: 10/625761 </p> <p>Confirmation Number: 7840</p> <p>First Named Applicant: Thomas Bachman</p> <p>Attorney Docket Number: ANCO67USA</p> <p>Search string: ( 3241078 or 3689752 or 4156283 or 4879519 or 4978873 or 5023565 or 5049832 or 5115409 or 5130663 or 5323119 or 5325095 or 5414383 or 5477187 or 5485120 or 5491454 or 5528196 or 5617061 or 5621354 or 5691668 or 5732333 or 5760646 or 5808512 or 5831478 or 5862459 or 5867065 or 5877653 or 5892397 or 5900778 or 5912586 or 5923214 or 5929703 or 5933766 or 5959499 or 5986499 or 6046635 or 6052023 or 6072364 or 6091295 or 6091715 or 6104239 or 6118335 or 6118339 or 6125266 or 6137335 or 6141390 or 6144255 or 6148185 or 6154641 or 6157253 or 6208846 ).pn.</p> <p><b>US Patent Documents</b></p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td></td><td>1</td><td>3241078</td><td>1966-03-15</td><td>H.E. Jones</td><td></td><td>329</td><td>50</td></tr><tr><td></td><td>2</td><td>3689752</td><td>1972-09-05</td><td>Gilbert</td><td></td><td>235</td><td>194</td></tr><tr><td></td><td>3</td><td>4156283</td><td>1979-05-22</td><td>Gilbert</td><td></td><td>364</td><td>841</td></tr><tr><td></td><td>4</td><td>4879519</td><td>1989-11-07</td><td>Myer</td><td></td><td>330</td><td>149</td></tr><tr><td></td><td>5</td><td>4978873</td><td>1990-12-18</td><td>Shoemaker</td><td></td><td>307</td><td>498</td></tr><tr><td></td><td>6</td><td>5023565</td><td>1991-06-11</td><td>Lieu</td><td></td><td>330</td><td>151</td></tr><tr><td></td><td>7</td><td>5049832</td><td>1991-09-17</td><td>Carvers</td><td></td><td>330</td><td>149</td></tr><tr><td></td><td>8</td><td>5115409</td><td>1992-05-19</td><td>Stepp</td><td></td><td>364</td><td>841</td></tr><tr><td></td><td>9</td><td>5130663</td><td>1992-07-14</td><td>Tattersall, Jr.</td><td></td><td>330</td><td>52</td></tr><tr><td></td><td>10</td><td>5323119</td><td>1994-06-21</td><td>Powell et al.</td><td></td><td>330</td><td>151</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>								init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass		1	3241078	1966-03-15	H.E. Jones		329	50		2	3689752	1972-09-05	Gilbert		235	194		3	4156283	1979-05-22	Gilbert		364	841		4	4879519	1989-11-07	Myer		330	149		5	4978873	1990-12-18	Shoemaker		307	498		6	5023565	1991-06-11	Lieu		330	151		7	5049832	1991-09-17	Carvers		330	149		8	5115409	1992-05-19	Stepp		364	841		9	5130663	1992-07-14	Tattersall, Jr.		330	52		10	5323119	1994-06-21	Powell et al.		330	151								
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11	5325095	1994-06-28	Vadnais et al.
12	5414383	1995-05-09	Cusdin et al.
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14	5485120	1996-01-16	Anvari
15	5491454	1996-02-13	Matz
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17	5617061	1997-04-01	Fukuchi
18	5621354	1997-04-15	Mitzlaff
19	5691668	1997-11-25	Yoshikawa et al.
20	5732333	1998-03-24	Cox et al.
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30	5923214	1999-07-13	Mitzlaff
31	5929703	1999-07-27	Sehier et al.
32	5933766	1999-08-03	Dent
33	5959499	1999-09-28	Khan et al.
34	5986499	1999-11-16	Myer
35	6046635	2000-04-04	Gentzler
36	6052023	2000-04-18	Myer
37	6072364	2000-06-06	Jeckeln et al.
38	6091295	2000-07-18	Zhang
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42	6118339	2000-09-12	Gentzler et al.
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## Remarks

Note: Remarks are not for responding to an office action.

Two Electronic Information Disclosure Statements containing a total of 68 US Patent references are being submitted this date. In addition, an Information Disclosure Statement containing the Foreign Patent and Other Document references is being mailed on even date herewith.

## Signature

Examiner Name	Date
SHING LETAH	3/1/05

SUBSTITUTE FORM PTO-1449 (MODIFIED)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)  (37 CFR 1.98(b))	ATTY. DOCKET NO. ANCO/67US	SERIAL NO. 10/625,761
	APPLICANT Thomas A. Bachman, II et al.	Confirmation No. 7840
	FILING DATE July 23, 2003	GROUP Unknown

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A.A						
	A.B						
	A.C						
	A.D						
	A.E						
	A.F						
	A.G						
	A.H						
	A.I						
	A.J						
	A.K						

## FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
MBS	A.L	EP 0 367 457 B1	27.03.1996	EPO	H03F	1/32	Yes
	A.M	EP 0 948 131 B1	27.03.2002	EPO	H03F	1/32	Yes
	A.N	EP 0 998 026 A1	03.05.2000	EPO	H03F	1/32	Yes
MBS	A.O	WO 97/08822	06.03.1997	WIPO	H03F	1/32	Yes
	A.P						
	A.Q						

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

MBS	A.R	Lohtia, Anit et al., "Power Amplifier Linearization using Cubic Spline Interpolation", <u>IEEE</u> , (1993), No. 0-7803-1266-x/93, pp. 676-679.
	A.S	Stapleton, Shawn P., "Amplifier Linearization Using Adaptive Digital Predistortion - The need for greater linearity can be addressed at the digital coding level", <u>Applied Microwave &amp; Wireless</u> , Technical Feature, (February 2001), pp.72-77.
MBS	A.T	Vella-Coleiro, George, <u>Frequency-Dependent Phase Pre-Distortion for Reducing Spurious Emissions in Communication Networks</u> , U.S. Patent Application Serial No. 10/068,343, filed on February 5, 2002.

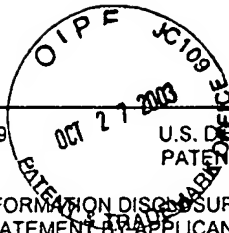
EXAMINER

SHINGLETON

DATE CONSIDERED

3/1/05

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SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. ANCO/67US		SERIAL NO. 10/625,761	
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(37 CFR 1.98(b))							
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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	B.C						
	B.D						
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	B.I						
	B.J						
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		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	B.L						
	B.M						
	B.N						
	B.O						
	B.P						
	B.Q						
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
MBJ	B.R	White, Paul E. et al., <u>Digital Baseband Receiver in a Multi-carrier Power Amplifier</u> , U.S. Patent Application Serial No. 10/091,756, filed on March 6, 2002.					
1	B.S	DeBruyn, William P. et al., <u>An Uncorrelated Adaptive Predistorter</u> , U.S. Patent Application Serial No. 10/342,633, filed on January 15, 2003.					
MBJ	B.T	Leffel, Michael D., <u>Independence Between Paths That Predistort for Memory and Memory-less Distortion in Power Amplifiers</u> , U.S. Patent Application Serial No. 10/406,959, filed on April 3, 2003.					
EXAMINER  SHINGLETON				DATE CONSIDERED  3/1/05			
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT Thomas A. Bachman, II et al.		Confirmation No. 7840	
(37 CFR 1.102(b))				FILING DATE July 23, 2003		GROUP 2817	

U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MBJ	A.A	4	8	7	0	3	7	1	9/26/1989	Gottwald et al.	330	149	7/27/1988
MBJ	A.B	6	0	7	5	4	1	1	8/13/2000	Briffa et al.	330	149	12/22/1997
	A.C												
	A.D												
	A.E												
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	A.K												

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MBJ	A.L	EP 0 085 600 A1	19.01.83	EPO	H 03	F 1/32	Abstract
MBJ	A.M	GB 2 347 031 A	12/02.1999	United Kingdom	H 03	F 1/32	Yes
	A.N						
	A.O						
	A.P						
	A.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)		
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	A.S	
	A.T	

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